

PRELIMINARY AMENDMENT

CLAIMS

1. Gas switching device for high and medium voltage applications, comprising at least a mobile arc contact and a corresponding fixed arc contact, and a nozzle having a hollow
5 shaped body which is positioned inside the device around the zone where electric arcs form between said arc contacts during switching operations, said hollow shaped body having a first portion electrically conductive and a second portion made of electrically insulating material which surrounds at least partially said first portion, wherein said hollow shaped body is mechanically secured directly onto said mobile arc contact.
- 10 2. Gas switching device according to claim 1, wherein said nozzle is mechanically secured directly to the mobile arc contact by means of conductive connecting means which are configured so as to electrically connect said mobile arc contact to said first portion.
3. Gas switching device according to claim 1, wherein said second portion has a lower tip part which has a shaped profile so as to act as a puffer cap.
- 15 4. Gas switching device according to claim 1, wherein said hollow shaped body is realized in a single body with said first portion incorporated in said second portion.
5. Gas switching device according to claim 1, wherein said first portion is shaped so as to act as an electric shield.
6. Gas switching device according to claim 1, wherein said first portion has a substantially
20 annular shape and is positioned along an inner circumference path of the hollow shaped body.
7. Gas switching device according to claim 1, wherein said first portion and /or said second portion comprise moldable materials.
8. Gas switching device according to claim 7, wherein said first portion is made of a matrix
25 of substantially moldable insulating material and a conductive filler.

9. Gas switching device according to claim 8, wherein the volume of said filler is in the range between 0,1% and 40% of the total volume of said first portion.
10. Gas switching device according to claim 8, wherein the volume of said filler is in the range between 0,5% and 35% of the total volume of said first portion.
- 5 11. Gas switching device according to claim 8, wherein the volume of said filler is in the range between 1% and 30% of the total volume of said first portion.
12. Gas switching device according to claim 1, wherein the said first portion is substantially made of a metallic piece.